

## THE "FIRST HEAT"

The Arizona & Sonora Manufacturing Company Start Their Foundry and Machine Shop.

Tuesday afternoon at 5 o'clock, the Arizona & Sonora Manufacturing Company turned out the "first heat" from their iron furnace, running a lot of castings necessary to the complete equipment of their plant, such as clamps for casting flasks, grate bars, etc. The interesting work was witnessed by a number of invited guests, and everything went off smoothly and satisfactorily. THE OASIS man took advantage of the opportunity to look over the plant, which was explained, and its detailed workings described by the superintendent, Mr. Eugene Biddeson.

## THE BUILDINGS.

The plant includes two large brick buildings, and a frame structure covered with corrugated iron. The main building, which is 40 x 122 feet in demensions, includes the foundry and machine shop, the foundry being 40 x 40 feet, and the machine shop 40 x 82. inside measurements. As an annex to the foundry end of the structure are a core room 17 x 12 feet, and a core oven 6½ x 12 feet. The smaller of the brick buildings is the pattern shop, and is a substantial structure 40 x 40 feet inside measure. The corrugated iron building is the blacksmith shop, and is 17 x 30 feet. The latter is now in course of construction, and will be soon completed. The others are all complete and in operation.

## THE FOUNDRY.

Is furnished with one 34-inch cupola, (inside measurement); one 20 inch cupola, for light work; two brass furnaces, each twenty inches in diameter; one No. 3 Root blower; and one iron crane which describes a circle of thirty-four feet and can lift a casting or weight of 7½ tones and deposit it anywhere within that circle, (its guaranteed capacity is five tons.)

The moulding sand was secured in the immediate vicinity, and is of very fine quality, made by blending several kinds of earth.

## THE MACHINE SHOP.

It is outfitted with a full complement of the finest tools of the kind to be found anywhere in the United States. Nowhere between San Francisco and Denver is there a more complete and fully equipped plant. It consists of one 36x36x8 foot Cincinnati planer; one 22 inch Cincinnati shaper; one 48-inch lathe with a 16 foot bed; one 22 inch lathe with a 24-foot bed; one 14 inch lathe with a six foot bed; one 22-inch drill press, for drilling holes up to one inch in diameter;

one Bickford radicaal drill press, which will drill anywhere within a radius of five feet, the work remaining stationary, where first set; one National bolt cutter, to cut bolts up to 1½ inches in diameter, and tap nuts in corresponding sizes; one set of punch and shears capable of cutting through iron or steel plates up to one half inch in thickness, or punching holes up to one inch in diameter through sheets of the same thickness in those metals; one set of rolls for bending iron plates, up to forty inches in width and 5—16 inch in thickness; one power hacksaw for sawing off work up to 3½. inches in diameter; one 22-inch emery wheel, for grinding tools, etc.; and all the smaller tools, such as twist drills, reamers, taps, dies, etc., accessory to the full and complete equipment of a first class

ing is the office and draughting room, 10 x 20 feet in dimensions, where are kept all drawings, models, etc. The

## OFFICIAL STAFF

Of the Arizona & Sonora Manufacturing Gompany consists of E. Titcomb, president; L. W. Mix, vice president; W. M. Hoey, sec., constitute the board of directors, (the house of Roy & Titcomb, inc., being treasurer); Eugene Biddeson, superintendent; John Davis, foundry foreman; Walter Kersey, foreman of pattern shop; Edwin A. Hughes, draughtsman; Nace Burgoon, machinist and engineer.

## THE OUTPUT

of this important and finally equipped enterprise will consist of a regular line of mining machinery, including hoists, one and two horse whims, crushing rolls of all sizes,

## NOGALES NOTES.

Rooms  
Rooms Elm street. Rooms  
Flewellling. of  
Stationery, right prices—Pellegrin's  
Dr. Bristol, dentist, Nogales.  
Last Saturday Doctor McCollum  
went to Bisbee.  
The celebrated Douglas shoe at L.  
B. Fleischer's.  
Wednesday Mr. C. C. Ortiz came up  
from Hermosillo.  
Staple and Fancy Groceries at Es-  
calada Brothers.  
Thursday evening Mr. A. L. Lewis  
the ore buyer, went south.  
Choice tea, of all kinds, and the best  
of coffee at Escalada Brothers.  
Mrs. E. C. Buhett of Washington  
Camp, was at Nogales Monday.  
A desirable store room for rent, \$20  
per month. Apply at THE OASIS.  
Wednesday Proto Brothers received  
a carload of canned goods.  
For everything to eat and wear go  
to Escalada Brothers.



OLD STATE CAPITOL OF URES, SONORA.

From Advance Sheets of Special Illustrated Edition of THE OASIS now in Course of Preparation.

machine plant. All machine tools are automatic in so far as the latest improvements and appliances can make them. The power is supplied by two Nagle upright engines, one 20-H. P., which drives the general machinery, the other 15 H. P., which is exclusively for the cupola blast.

## THE BLACKSMITH SHOP.

Is equipped with a 6-inch steam hammer, to serve one large forge and furnace, and a crane to handle iron from the furnace to the hammer.

## THE PATTERN SHOP.

Is equipped with one 36-inch band saw with latest improvements; one wood turning lathe; one mitre shaping machine; one power tip

ore crushers with latest improvements, stamp mills, ore cars, ore buckets, etc., etc., in fact everything used about a mine, mill, concentrator or smelter. In the line of hoists anything can be made from a prospecting hoist, 5 x 6 inches, up to a big machine 16 x 32 inches which will go down 2,000 feet. General repair work will also be done. Having the advantage of cheap transportation upon raw materials, all these lines of machinery can be manufactured here cheaper than they can be laid down from eastern shops and foundries. That signifies that the great and growing mining industries of Sonora and Southern Arizona will find cheapest and best the machinery manufactured by the Arizona & Sonora Manufacturing Company, at Nogales. A full line of machinery will be manufactured and kept in stock to fill all orders promptly

Doctor Smith, the dentist came up from Ures very ill. He is improving.  
Licensed bullion buyers — A. L. Pellegrin & Co.  
Monday Mr. Frank Powers of the World's Fair mine, was at Nogales.  
Budweiser Bottled Beer. Excellent for family use at Escalada Brothers.  
Joseph Thomson Jr., is up from La Colorado.  
Mr. Francisco Moreno was in from Washington Camp Thursday.  
Mr. O. K. Franklio came over from Washington Camp early in the week.  
The finest brands of foreign and domestic wines and liquors at Escalada Brothers.  
The following was handed in to this office this morning and you could not touch the modest "types" on THE OASIS with the north pole.  
"I hate noticed", remarked Schuster, "dat der fellers nefer stop sewing deir vid cats", and dey hafe run out of seed."  
Last week Mr. Anton Proto went to the Cocospira ranche, and will remain there two or three weeks.  
Mr. Louis Proto was in the morning Monday.